

## EAST Search History

## EAST Search History (Prior Art)

| Ref # | Hits | Search Query  | DBs   | Default Operator | Plurals | Time Stamp          |
|-------|------|---|---|------------------|---------|---------------------|
| L1    | 1    | "20070060483".pn.   | US-PGPUB;<br>USPAT; USOCR   | OR               | ON      | 2009/12/23<br>12:59 |
| L2    | 996  | "KONISHI, SHOZABURO".in. or<br>"KANO, MAKOTO".in. or "UENO,<br>TAKAFUMI".in. or "ISHIKAWA,<br>TAKAO".in.  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2009/12/23<br>13:00 |
| L3    | 1152 | L2 or ("NIPPON OIL CORPORATION"<br>or "NISSAN MOTOR CO.").as.   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2009/12/23<br>13:00 |
| L4    | 87   | L3 and ("diamond-like carbon" or<br>"diamond like carbon" or "diamond-<br>like coat" or "diamond like coat" or<br>"diamond-like coating" or "diamond<br>like coating" or DLC) | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2009/12/23<br>13:01 |
| L5    | 1312 | 508/167,433,109,154,179.ccls.   | US-PGPUB;<br>USPAT; USOCR   | OR               | ON      | 2009/12/23<br>13:01 |
| L6    | 3998 | 428/408.ccls.   | US-PGPUB;<br>USPAT; USOCR   | OR               | ON      | 2009/12/23<br>13:02 |
| L7    | 5299 | L5 or L6  | US-PGPUB;<br>USPAT; USOCR   | OR               | ON      | 2009/12/23<br>13:02 |
| L8    | 461  | L7 and ("diamond-like carbon" or<br>"diamond like carbon" or "diamond-<br>like coat" or "diamond like coat" or<br>"diamond-like coating" or "diamond<br>like coating" or DLC) | US-PGPUB;<br>USPAT; USOCR   | OR               | ON      | 2009/12/23<br>13:05 |
| L9    | 9    | L8 and salicylate   | US-PGPUB;<br>USPAT; USOCR   | OR               | ON      | 2009/12/23<br>13:06 |
| L10   | 3    | L8 and ("Fischer-Tropsch" or fischer<br>adj tropsch or tropsch)   | US-PGPUB;<br>USPAT; USOCR   | OR               | ON      | 2009/12/23<br>13:07 |
| L11   | 274  | L8 and friction   | US-PGPUB;<br>USPAT; USOCR   | OR               | ON      | 2009/12/23<br>13:07 |
| L12   | 9    | ("20020086803"   "20030162672"  <br>"20040092405"   "20050241216"  <br>"20050272616"   "5282990"  <br>"6333298"   "6508416"   "6543394").<br>PN.                              | US-PGPUB;<br>USPAT; USOCR   | OR               | ON      | 2009/12/23<br>13:08 |

|     |     |  |                           |    |    |                     |
|-----|-----|--|---------------------------|----|----|---------------------|
| L13 | 469 | "20020057855" (US-PGPUB)<br>"20020060982" (US-PGPUB)<br>"20020174741" (US-PGPUB)<br>"20030099416" (US-PGPUB)<br>"20040146667" (US-PGPUB)<br>"20040164502" (US-PGPUB)<br>"20050062470" (US-PGPUB)<br>"20050141797" (US-PGPUB)<br>"20050229851" (US-PGPUB)<br>"20050280413" (US-PGPUB)<br>"20060095060" (US-PGPUB)<br>"20060158181" (US-PGPUB)<br>"20070060483" (US-PGPUB)<br>"20070090741" (US-PGPUB)<br>"20080146468" (US-PGPUB)<br>"20080190284" (US-PGPUB)<br>"5462784" (USPAT)<br>"5482602" (USPAT)<br>"5637373" (USPAT)<br>"5672054" (USPAT)<br>"5674638" (USPAT)<br>"5734530" (USPAT)<br>"5762110" (USPAT)<br>"5837357" (USPAT)<br>"5922415" (USPAT)<br>"5947710" (USPAT)<br>"5989672" (USPAT)<br>"6001479" (USPAT)<br>"6122148" (USPAT)<br>"6165582" (USPAT)<br>"6177754" (USPAT)<br>"6194047" (USPAT)<br>"6221108" (USPAT)<br>"6221108" (USPAT)<br>"6238197" (USPAT)<br>"6328856" (USPAT)<br>"6335080" (USPAT)<br>"6373659" (USPAT)<br>"6391419" (USPAT)<br>"6461726" (USPAT)<br>"6499881" (USPAT)<br>"6529347" (USPAT)<br>"6613459" (USPAT)<br>"6615689" (USPAT)<br>"6923451" (USPAT)<br>"6954065" (USPAT)<br>"6994474" (USPAT)<br>"7012425" (USPAT)<br>"7078895" (USPAT)<br>"7172343" (USPAT) | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2009/12/23<br>13:08 |
| L14 | 46  | "internal combustion engine" and ("Fischer-Tropsch" or fischer adj tropsch or GTL or "gas to liquid") and friction same "aliphatic amine" and detergent.bi.  | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2009/12/23<br>13:27 |

|     |     |   |                           |    |    |                     |
|-----|-----|---|---------------------------|----|----|---------------------|
| L15 | 63  | ("diamond-like carbon" or "diamond like carbon" or "diamond-like coat" or "diamond like coat" or "diamond-like coating" or "diamond like coating" or DLC) and (GTL or "gas to liquid" or "Fischer-Tropsch" or fischer adj tropsch).bi.  | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2009/12/23<br>13:27 |
| L16 | 135 | ("Fischer-Tropsch" or fischer adj tropsch) same aromatic near content and (sulfur or sulphur) near content. bi.   | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2009/12/23<br>13:28 |
| L17 | 35  | ("diamond-like carbon" or "diamond like carbon" or "diamond-like coat" or "diamond like coat" or "diamond-like coating" or "diamond like coating" or DLC or "diamond type" or "diamond-type" or (amorphous near carbon)) and (hydrocracked or hydrotreated or hydroisomerised or hydroisomerized or tropsch or "gas to liquid" or GTL or polyalphaolefin or poly-alpha-olefin or PAO) same4 (lubrica\$5 or oil or fluid) and @ad<"20030806" | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2009/12/23<br>13:29 |
| L18 | 155 | ("Fischer-Tropsch" or fischer adj tropsch) and engine and coefficient near friction.bi.   | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2009/12/23<br>13:30 |
| L19 | 118 | ("Fischer-Tropsch" or fischer adj tropsch) and engine and coefficient near friction and detergent and friction same2 amine.bi.  | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2009/12/23<br>13:31 |
| L20 | 27  | ("Fischer-Tropsch" or fischer adj tropsch) and engine and coefficient near friction and detergent and friction same2 amine.bi. and @ad<"20030806"   | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2009/12/23<br>13:31 |
| L21 | 2   | ("Fischer-Tropsch" or fischer adj tropsch) and engine and viscosity near "100" and friction near (modifier or additive) and salicylate and phosph\$5 near (anti adj wear or anti-wear or wear)  | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2009/12/23<br>15:10 |

### EAST Search History (Interference)

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**12/ 23/ 2009 4:20:15 PM**

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